

#2

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/955,999

DATE: 10/04/2001
TIME: 17:22:12

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I955999.raw

2 <110> APPLICANT: Barash et al.
 4 <120> TITLE OF INVENTION: Signal Transduction Pathway Component Polynucleotides,
 Polypeptides,
 5 Antibodies, and Methods Based Thereon
 7 <130> FILE REFERENCE: PT086P1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/955,999
 10 <141> CURRENT FILING DATE: 2001-09-20
 12 <150> PRIOR APPLICATION NUMBER: 60/234,997
 13 <151> PRIOR FILING DATE: 2000-09-25
 15 <160> NUMBER OF SEQ ID NOS: 139
 17 <170> SOFTWARE: PatentIn Ver. 2.0
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 21 <211> LENGTH: 733
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 28 tctcccgac tcctgaggc acatgcgtgg tggtgacgt aagccacgaa gaccctgagg 180
 29 tcaagttcaa ctggtaacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 30 aggacgacta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 31 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccattcg 360
 32 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 33 catcccgga ttagctgacc aagaaccagg tcagcctgac ctgcctggc aaaggcttct 480
 34 atccaagcga catgcgcgtg gatgggaga gcaatggca gccggagaaac aactacaaga 540
 35 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
 36 acaagagcag gtggcagcag gggAACGTCT tctcatgctc cgtgatgcat gaggctctgc 660
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 38 gactctagag gat 733
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 42 <211> LENGTH: 5
 43 <212> TYPE: PRT
 44 <213> ORGANISM: Homo sapiens
 46 <220> FEATURE:
 47 <221> NAME/KEY: Site ✓
 48 <222> LOCATION: (3) ✓
 49 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
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 53 1 5
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 62 cccgaaatat ctgccatctc aattag 86
 65 <210> SEQ ID NO: 4

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82 gcccttaact ccgcccagg ccgcccattc tccgccccat ggctgactaa ttttttttat 180
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132 cagttccgcc cattctccgc cccatggctg actaattttt ttatattatg cagaggccga 180
133 ggccgcctcg gcctctgagc tattccagaa gtatgtgagga ggcttttg gaggcctagg 240

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| 143 | cccaagctgg a ggaaggcg cgccggcc ca cgatgagtgc gggcgacgca gtgtgcaccg | 60 |
| 144 | gctggctcg t taagtcgccc cccgagagga agctacagcg ctacgcctgg cgcaagcgct | 120 |
| 145 | ggtttgtcct ccggcgaggc cgcattgagcg gcaacccga tgtcttgag tactacagga | 180 |
| 146 | acaaggactc cagcaagccc atccgggtga tagacctcag cgagtgtgca gtgtggaa | 240 |
| 147 | atgtgggccc cagctttgtt cggaaaggat ttcaagaataa ttctgttttc attgtcaaga | 300 |
| 148 | ctacttcccg tacattctac ctgggtggcc aaactgagca agaaatgcag gtgtgggtgc | 360 |
| 149 | acagcatcag tcaggtctgc aaccttggcc acctggagga tggtgcagat tccatggaga | 420 |
| 150 | gcctcttta cacggccctcc tccctgcagc catcctctgc cagctccctt cttaccggcc | 480 |
| 151 | atgctgccag ctcctcttg ccaagagatg acccaaacac taatgccgt a gccactgagg | 540 |
| 152 | aaaccagaag tgagtcaag tttctcttcc ttccagatta tctggtttg tccaaactgcg | 600 |
| 153 | agactggaag actgcaccat accagtctac ccaccagatg tgatagctgg tcaaaactcag | 660 |
| 154 | accgttcatt ggaacaggct tcatttgatg atgttttgc tgactgcctg cagccgctcc | 720 |
| 155 | cctccagtca tttggccac ccctcatgcc atggcagtg agctcaggag gtgcctatc | 780 |
| 156 | cgaggcctca ggctgcctg atctggagta gagaaatcaa tggccaccc agggaccact | 840 |
| 157 | tgtcttcttc accattgctg gaaagttcct taagttccac cattcaggta gataaaaatc | 900 |
| 158 | aaggttcctt accctgttga gcaaaaagaac tagacattat gtccaacact ccacccccc | 960 |
| 159 | gccccctaa gccaaggccat ctgtctgaac ggcccaaga ggagtggagt acacacagt | 1020 |
| 160 | gtagcaagaa gccagaatgc actctgggttca aacaaatctt cttccctctt ggttagaca | 1080 |
| 161 | acatgagaac ctggaaagct gatgtagaag gccaatcctt aagacaccga gacaaggcg | 1140 |
| 162 | ttagttgaa tttggccatgc aggttctccc cgatgtaccc cacagctca gccagtatcg | 1200 |
| 163 | aagacagcta tttggccatg agcccccagg ctgggtgcctc tggcttttgc ccccaactgca | 1260 |
| 164 | gccctgatga ctacattcca atgaactcag gaagcatctc aagccgttgc cttccatgc | 1320 |
| 165 | ctgcaaacct ggaacccccc ccagtgaata gagatctcaa gcctcaggaa aatcacggc | 1380 |
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| 167 | cccgcaactgt gccttgcagt cgaaccagct ttctctctcc agaaagaaat ggtattaa | 1500 |
| 168 | ctgcaagatt ttttgcataat cctgtttcca gagaagacga agaaagctac atcgaatgg | 1560 |
| 169 | aggagcaccg aacagccagt tccctgagca gtgggtccct tacgtggaca aagaaattca | 1620 |
| 170 | gcctagatta tttggccctg gacttcaatt cagcatcacc agccccatg cagcagaa | 1680 |
| 171 | ttctccttcc agaagaacaa agatgact atgtccaaat ggttgcggc aagacacagg | 1740 |
| 172 | ctctccagag cacaacacag gagtggacgg atgaaaggca atccaaatgt tggatggc | 1800 |
| 173 | gggcttgtgc catgtgttgc acaggaaaggc ttggggctca gtttgcgtt tttttttt | 1860 |
| 174 | ttttttttt gtccactaaa aacacactga tggcaacac aggtcaaaac caagagagaa | 1920 |
| 175 | tgtgttagtt tcaaggctt ggcagaacc tttaggaaag aagacactgtt tatacatgt | 1980 |
| 176 | aggaagaaaa gaaggaagca gttgccttcc ggaggggct ctgagagaat ctgcctccc | 2040 |
| 177 | ctctgtccta ttggagcaaa gattggatgt agtgttgcctt ccaacaggat tttatcg | 2100 |
| 178 | gactccaata cctgaaattc tgacttctt cctgtgcctt aatgagaatg ataaattatc | 2160 |
| 179 | ctagcaaagg ggcctcttgc gaccatcttgc ttccagcctc tgaagacagt tgaggagatc | 2220 |
| 180 | aagcccaagca atgggtggcag aatcttactc cacagacttc agcagactag tcatttcaat | 2280 |
| 181 | acccaaagaa agacaagtga cagggcaat ggttgcagg ctgtgcata agtataatcg | 2340 |
| 182 | atgacactgg tggctctaag gatattgcaat ttaaggactt acctgttagcc aggttattcg | 2400 |
| 183 | ctgctcttgg cttttccca cgcattgtct cgttgcctt ccggaaagacc ttggaaagata | 2460 |
| 184 | ggccttggaaag agactgttga tgccactttt aagaaaagaa cactgagaac tagaggagg | 2520 |
| 185 | aacacttgc ccaagattac tcacaaagcc aagacccaga gtccagctt gagaatagag | 2580 |

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| 188 tgagttagtca tcctgtctcc ctttcaatacg ggatctgaac aggtgtttt atacttgaaa | 2760 |
| 189 gatgtgcattg tcaagtggagg gtttcttct gcgtatgttca actggaaactc tcccatcagt | 2820 |
| 190 agttacaatt agaaataacct actgtatggtt agtctgaagg ccattctcat ggtcacctat | 2880 |
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| 192 ttcttaggtt tcccagccaa ttgctccctt ctgctttaga agtgcatttt tactgagagt | 3000 |
| 193 acaaacactc ccactttata atgaaggcgt catgtcaccc cttcccttac aggtccttgg | 3060 |
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| 216 acgggggacc caagggttcc aagcctgcaatggcagaagg tgacaaaccc aggacactg | 4440 |
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| 218 aagacacgaa gcgacccatcc cactgtacag tccacttcac aggtatgtt gaatcatgac | 4560 |
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| 228 <213> ORGANISM: Homo sapiens | |
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| 231 <221> NAME/KEY: SITE | |
| 232 <222> LOCATION: (2300) | |
| 233 <223> OTHER INFORMATION: n equals a,t,g, or c | |
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| 237 accgcgcgtgg acgtggagaa gagtggcaaa gtctccaatg cccagctcaa ggtgctgtcc | 120 |
| 238 cacaacactgtt acacggcctt gcacatcccc catgaccccg tggcccttggaa ggaacacttc | 180 |

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| 241 | acgctgacgg ccaagaagaa ctatcgccca gatagcaacg ggaacagtat gctctccaat | 360 |
| 242 | caggatgcct tccgcctctg gtgcctcttc aacttcctgt ctgaggacaa gtaccctctg | 420 |
| 243 | atcatggttc ctgatgaggt ggaatacctg ctgaaaaagg tactcagcag catgagcttg | 480 |
| 244 | gaggtgagct tgggtgagct ggaggagctt ctggcccaagg aggcccagg ggcccagacc | 540 |
| 245 | accggggggc tcagcgtctg gcagttcctg garctttca attcggccg ctgcctgcgg | 600 |
| 246 | ggcgtgggcc gggacaccct cagcatggcc atccacgagg tctaccagga gctcatccaa | 660 |
| 247 | gatgtcctga agcagggcta cctgtggaag cgagggcacc tgagaaggaa ctggccgaa | 720 |
| 248 | cgctggttcc agctgcagcc cagctgcctc tgctactttg ggagtgaaga gtgcaaagag | 780 |
| 249 | aaaaggggca ttatccgct gnatgcacac tgctgcgtgg aggtgctgcc agaccgcgac | 840 |
| 250 | ggaaagcgct gcatgttctg tgtgaagaca gccamccgca cgtatgagat gagcgcctca | 900 |
| 251 | gacacgcgccc agcggccagga gtggacagct gccatccaga tggcgatccg gctgcaggcc | 960 |
| 252 | gaggggaaga cgtccctaca caaggacctg aagcagaaac ggcgcgagca gggggagcag | 1020 |
| 253 | cgggagcggc gccggggcggc aaggaagagg agctgytgcg gctgcagcag ctgcaggagg | 1080 |
| 254 | agaaggagcg gaagctgcag gagctggagc tgctgcagga ggcgcacggc aggccgagcg | 1140 |
| 255 | gctgctgcag gaggaggagg aacggcgcgg cagccagcac cgcgagctgc acaggcgct | 1200 |
| 256 | cgagggccaa ctgcgcgagg cggagcaggc ccgggcctcc atgcaggctg agatggagct | 1260 |
| 257 | gaaggaggag gaggctgccc ggcagcggca cgcatcaagg agctggagga gatgcagcag | 1320 |
| 258 | cgggtgcagg agggcctgca actagaggtg aaagctcggc gagatgaaga atctgtgcga | 1380 |
| 259 | atcgctcaga ccagactgct ggaagaggag gaagagaagc tgaagcagtt gatgcagctg | 1440 |
| 260 | aaggaggagc aggagcgcta catcgAACGG ggcacacgg gaaggaagag ctgcagcagg | 1500 |
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| 265 | accgtgactc ctccctaaag cgcctgaccc gctgggatc ccaggcaac aggacccc | 1800 |
| 266 | cgcggccacag caatgagcag cagaagtccc tcaatgggg gnatgaggtc cctggccccc | 1860 |
| 267 | cttccacccc tcaggaagat aaactggatc cagcaccaga aaattagcct ctcttagccc | 1920 |
| 268 | cttggcttc ccaatgtcat atccaccagg acctggccac agctggcctg tgggtgatcc | 1980 |
| 269 | cagctttac taggagaggg agctgaggtc ctggcgcag gggcccaaggc cctccaaacca | 2040 |
| 270 | taaacagtcc aggatgaaac ctgggttcacc cttcatacca gctccaagcc ccagaccatg | 2100 |
| 271 | ggagctgtct gggatgttga tccttgagaa cttggccctg tgctttagac ccaaggaccc | 2160 |
| 272 | gattcctggg ctaggaaaga gagaacaagc aagccggggc tacctgcccc caggtggcca | 2220 |
| 273 | ccaagttgtg gaagcacatt tctaaataaa aactgcttt agaatgaaaa aaaaaaaaaa | 2280 |
| 274 | aaaaaaaaaaaa aaaaaaaaaan cc | 2302 |

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277 <210> SEQ ID NO: 13
278 <211> LENGTH: 501
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280 <213> ORGANISM: Homo sapiens
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283 <221> NAME/KEY: SITE
284 <222> LOCATION: (425)
285 <223> OTHER INFORMATION: n equals a,t,g, or c
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289 <222> LOCATION: (487)
290 <223> OTHER INFORMATION: n equals a,t,g, or c
292 <220> FEATURE:

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
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L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/955,999

DATE: 10/04/2001
TIME: 17:22:13

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I955999.raw

L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38